

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L51   | 0    | ((AM\$1AM or AM\$1PM) same (injection or inject \$3)).clm.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR               | ON      | 2009/06/25 13:11 |
| L50   | 33   | (AM\$1AM or AM\$1PM) same (injection or inject \$3)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR               | ON      | 2009/06/25 13:10 |
| L46   | 53   | ((add or add\$3 or summ \$4 or sum or combin\$3) same ((compensat\$3 or pre\$1distort\$3 or predistor\$3 or injection or correct\$3 or lineariz \$4 or linearis\$4) near2 signal) same ((RF or radio\$1frequency or (radio near frequency) or IF or intermediate \$1frequency or (intermediate near frequency) or up \$1convert\$3 or upconvert\$3 or upmix or up\$1mix) near2 (term or component or signal)) same ((baseband or base \$band or ("not" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix)) or ("non" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix)) near2 (term or signal or component))).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR               | ON      | 2009/06/25 13:05 |

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| L45 | 39 | ((add or add\$3 or summ \$4 or sum or combin\$3) with ((compensat\$3 or pre\$1distort\$3 or predistor\$3 or injection or correct\$3 or lineariz \$4 or linearis\$4) near2 signal) same ((RF or radio\$1frequency or (radio near frequency) or IF or intermediate \$1frequency or (intermediate near frequency) or up \$1convert\$3 or upconvert\$3 or upmix or up\$1mix) near2 (term or component or signal)) same ((baseband or base \$band or ("not" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix)) or ("non" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix)) near2 (term or signal or component))).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25<br>13:05 |
| L44 | 37 | ((add or add\$3 or summ \$4 or sum or combin\$3) with ((compensat\$3 or pre\$1distort\$3 or predistor\$3 or injection or correct\$3 or lineariz \$4 or linearis\$4) near2 signal) with ((RF or radio\$1frequency or (radio near frequency) or IF or intermediate \$1frequency or (intermediate near frequency) or up \$1convert\$3 or upconvert\$3 or upmix or up\$1mix) near2 (term or component or signal)) with ((baseband or base \$band or ("not" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix)) or ("non" near (upconvert\$3 or up \$1convert\$3 or upmix or up\$1mix))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25<br>13:03 |

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|     |    | (or up\$1mix)) near2<br>(term or signal or<br>component)))   |  |    |    |                     |
| L43 | 39 | (add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistor\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal) same ((RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3 or upmix<br>or up\$1mix) near2<br>(term or component or<br>signal)) same<br>((baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3 or upmix<br>or up\$1mix)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3 or upmix<br>or up\$1mix)) near2<br>(term or signal or<br>component))).clm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>13:03 |
| L41 | 13 | (pre\$1distortion or<br>predistortion or<br>compensat\$3 or correct<br>\$3) near2 (add or add<br>\$3 or sum or sum\$3 or<br>summation) with (up<br>\$1convert\$3 or<br>upconvert\$3 or up<br>\$1mix or upmix)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>13:02 |
| L39 | 11 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>near2 ((compensat\$3<br>or pre\$1distort\$3 or<br>predistor\$3 or injection<br>or correct\$3) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>13:02 |

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|     |       | upconvert\$3) with<br>(baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3)))  |  |    |    |                     |
| L36 | 9     | (add or add\$3 or sum<br>or sum\$3 or summation<br>or ("RF" or<br>radiofrequency or radio<br>\$1frequency) near<br>(combin\$3 or add\$3 or<br>sum\$3)) with "AM-PM"<br>with "AM-AM"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>13:00 |
| L34 | 21    | (pre\$1distortion or<br>predistortion or<br>compensat\$3 or correct<br>\$3) near2 (add or add<br>\$3 or sum or sum\$3 or<br>summation or ("RF" or<br>radiofrequency or radio<br>\$1frequency) near<br>(combin\$3 or add\$3 or<br>sum\$3)) with (in<br>\$1band or inband or (in<br>adj band) or base<br>\$1band or baseband or<br>cubic) and L33   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>13:00 |
| L28 | 10172 | (330/136 330/262-263<br>330/250 330/273-274<br>330/268 375/297<br>375/254 375/278<br>455/67.11 455/67.13<br>455/91 455/114.2<br>455/114.3 455/501).<br>cols.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:54 |
| L27 | 39    | (add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal) same ((RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) near2<br>(term or component or | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:54 |

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|     |     | signal)) same<br>((baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3)) near2<br>(term or signal or<br>component))).clm.   |  |    |    |                     |
| L26 | 132 | (add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal) same ((RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) near2<br>(term or component or<br>signal)) same<br>((baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3)) near2<br>(term or signal or<br>component))) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:51 |
| L25 | 37  | (add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal) with ((RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) near2<br>(term or component or<br>signal)) with<br>((baseband or base<br>\$band or ("not" near  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:51 |

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|     |     | (upconvert\$3 or up<br>\$1convert\$3) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3)) near2<br>(term or signal or<br>component)))   |  |    |    |                     |
| L23 | 151 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) with<br>(baseband or base<br>\$1band)).clm.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:48 |
| L22 | 168 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency)).clm.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:47 |
| L1  | 50  | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>with ((compensat\$3 or<br>pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) with<br>(baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:36 |

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|      |    | \$1convert\$3)))  |  |    |    |                     |
| S167 | 17 | (AM\$1AM or AM\$1PM)<br>with (injection or inject<br>\$3)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:30 |
| S166 | 10 | (AM\$1AM or AM\$1PM)<br>with injection  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:30 |
| S161 | 11 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>near2 ((compensat\$3<br>or pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3 or lineariz<br>\$4 or linearis\$4) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) with<br>(baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3))) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:26 |
| S156 | 11 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>near2 ((compensat\$3<br>or pre\$1distort\$3 or<br>predistort\$3 or injection<br>or correct\$3) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) with<br>(baseband or base<br>\$band or ("not" near<br>(upconvert\$3 or up<br>\$1convert\$3)) or ("non"<br>near (upconvert\$3 or up<br>\$1convert\$3)))                                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:18 |

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| S155 | 205 | ((add or add\$3 or summ<br>\$4 or sum or combin\$3)<br>near2 ((compensat\$3<br>or pre\$1distort\$3 or<br>predistor\$3 or injection<br>or correct\$3) near2<br>signal)) with (RF or<br>radio\$1frequency or<br>(radio near frequency)<br>or IF or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:17 |
| S149 | 7   | ((add or sum or combin<br>\$3) near2 (compensat<br>\$3 near2 signal)) with<br>(RF or radio<br>\$1frequency or (radio<br>near frequency) or IF<br>or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3) and S147   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:10 |
| S148 | 26  | ((add or sum or combin<br>\$3) near2 (compensat<br>\$3 near2 signal)) with<br>(RF or radio<br>\$1frequency or (radio<br>near frequency) or IF<br>or intermediate<br>\$1frequency or<br>(intermediate near<br>frequency) or up<br>\$1convert\$3 or<br>upconvert\$3)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>12:08 |
| S145 | 0   | ((memory near effect)<br>or memory\$1effect)<br>near2 (power<br>\$1amplifier or (power<br>near amplifier)) same<br>baseband same non<br>\$1baseband   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>11:59 |
| S144 | 0   | ((add or sum or combin<br>\$3) with (compensat\$3<br>near2 signal)) same<br>baseband same non<br>\$1baseband  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO; DERWENT | OR | ON | 2009/06/25<br>11:59 |

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| S143 | 0   | ((add or sum or combin\$3) with (compensat\$3 near2 signal)) with baseband with non \$1baseband                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 11:58 |
| S139 | 2   | (envelope\$1inject\$3 or (envelope near2 inject \$3)) and S137  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 11:56 |
| S138 | 2   | (envelope\$1inject\$3 or (envelope near inject \$3)) and S137   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 11:55 |
| S137 | 116 | ((memory near effect) or memory\$1effect) near2 (power \$1amplifier or (power near amplifier))                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:49 |
| S136 | 0   | (memory near effect) and ((symmetr\$3 or symmetry) same "IM3L" same "IM3H")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:48 |
| S135 | 0   | memory same (symmetr\$3 or symmetry) same "IM3L" same "IM3H"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:48 |
| S134 | 0   | memory same symmetr\$3 same "IM3L" same "IM3H"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:48 |
| S133 | 1   | memory with "IM3L" with "IM3H"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:47 |
| S131 | 66  | memory with (amplifier or PA) with ("IM" or intermodulation\$1effect or (intermodulation near effect))              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:46 |
| S130 | 0   | memory near2 effect with (amplifier or PA) with ("IM" or intermodulation\$1effect or (intermodulation near effect)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:45 |
| S129 | 6   | memory near2 amplifier with ("IM" or intermodulation\$1effect or (intermodulation near effect))                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/06/25 10:43 |

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